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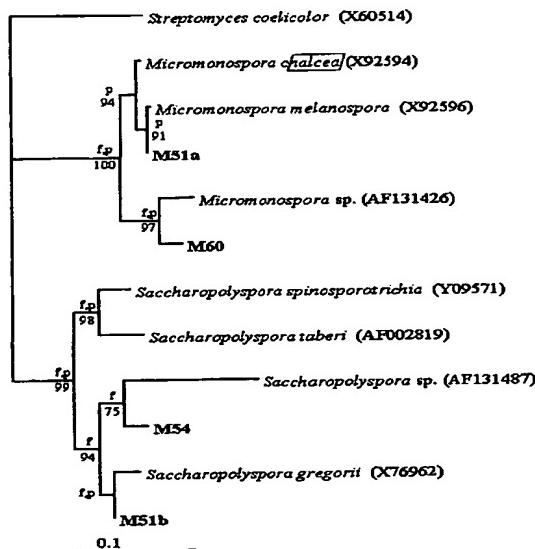
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**Declaration under Rule 4.17:**

— of inventorship (Rule 4.17(iv)) for US only

[Continued on next page]

(54) Title: MANZAMINE-PRODUCING ACTINOMYCETES



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(57) Abstract: Disclosed are strains of actinomycetes that produce manzamines or derivatives thereof, methods of isolating said strains, and a 16S rRNA useful in identifying manzamine-producing bacteria.



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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/24238

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61K 31/497; C12N 1/00, 1/12, 1/20; C12P 1/00, 17/00,  
US CL : 435/41, 117, 243, 252.1; 514/252.1

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
U.S. : 435/41, 117, 243, 252.1; 514/252.1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
**IUBMB DATA BASE**

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
Please See Continuation Sheet

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No.              |
|------------|--|------------------------------------|
| Y          | PERAUD, O. et al. Microbial Community Analysis of a MArine Sponge that Contains the ANti-Malarial Compound Menzamine A. Abstract ASM 102nd Generl Meeting. 22 May 2002, Session 221/N, Abstract N-188, page 337.   | 1, 4-6, 10-12, 14-17, 21-22, 24-28 |
| Y,P        | YOUAF, M. et al. 12, 34 Oxamanzamines, Novel Biocatalytic and Natural Products from Manzamine Producing Indo-Pacific Sponges. Tetrahedron. 2002, pages 7397-7402. abstract, page 7399, Column 2, Lines 11-37 below Figure 1; Figure 1, Tables Tables 2 nd 3. | 1-28                               |

Further documents are listed in the continuation of Box C.

See patent family annex.

|   |     |  |
|---|-----|--|
| * Special categories of cited documents:  | "T" | later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  |
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| "O" document referring to an oral disclosure, use, exhibition or other means  |     |  |
| "P" document published prior to the international filing date but later than the priority date claimed  |     |  |

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**INTERNATIONAL SEARCH REPORT**

PCT/US03/24238

**Continuation of B. FIELDS SEARCHED Item 3:**

REGISTRY, BELLSTEIN, BIOSIS, BIOTECHNO, CA, CAPLUS, HCPLUS, EMBASE, JICST-EPLUS, MEDLINE, TOXCENTRE, USPATFULL, USPT, PGPB, EPB, JPAB, DWPI.

**Search Terms:**

conducted structure search in registry, manzamine with registry number (i.e., 81782-73-2) and chemical formula for manzamine and different forms of manzamine (e.g., 34 oxamanzamine A), actinomycete or filamentous bacteria or bacteria, anti-malaria compound.